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TITLE: HYDRAULIC BUSH CONTROL SYSTEM  
FOR SUSPENSION OF  
AUTOMOBILE

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ABSTRACT:

PROBLEM TO BE SOLVED: To secure stability at the time of turning and straight travelling even in case of a system trouble of by regulating an elastic coefficient of a hydraulic bush in accordance with size and frequency of input vibration of a road surface and controlling a position of a roll center of a vehicle through pressure control of a fluid chamber of the hydraulic bush by a travelling condition.

SOLUTION: Pressure of two fluid chambers 407, 408 in a hydraulic bush 40 is controlled by controlling a pressure control valve 68 and a motor 63 by an electronic control device 7 in accordance with a driving state while driving a vehicle, and its elastic coefficient is regulated. That is, an elastic characteristic of the hydraulic bush 40 is made hard by highly controlling pressure, and the elastic characteristic of the hydraulic bush 40 is made soft by reducing pressure. However, at the time when a system's trouble is caused while travelling, stability of a car body is secured by a damping characteristic of fluid by stopping electrification to the pressure control valve 68 and the motor 63, making each of the fluid chambers 407, 408 in zero pressure by blocking a channel from a hydraulic pressure

source and making the  
elastic characteristics of the hydraulic bush 40 soft.

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